INTERNATIONAL SEARCH REPORT

International application No.

	PCT/JP2005/001		JP2005/001397
	CATION OF SUBJECT MATTER		
Inc.CI	⁷ F04B39/04, 39/00, 39/14, F16	B4/00	
According to In	ternational Patent Classification (IPC) or to both nation	al classification and IPC	
B. FIELDS SE			
	nentation searched (classification system followed by c	laccification exambols)	
Int.Cl	F04B39/00-39/16, F16B4/00	iassification symbols)	
Documentation:	searched other than minimum documentation to the exte	ent that such documents are included	in the fields seamhed
Jitsuyo	Shinan Koho 1922-1996 Ji	tsuyo Shinan Toroku Koho	1996-2005
Kokai J	itsuyo Shinan Koho 1971-2005 To	oroku Jitsuyo Shinan Koho	1994-2005
Electronic data b	pase consulted during the international search (name of	data base and, where practicable, sear	ch terms used)
		and oute and, where practicable, seaf	ch terms used)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
Y	JP 60-90995 A (Toshiba Corp.),	1-5
	22 May, 1985 (22.05.85),		
	Full text (Family: none)		
	(ramily. none)		
Y	Microfilm of the specification	on and drawings	1-5
	annexed to the request of Jap	panese Utility	
	Model Application No. 43012/1	1986 (Laid-open	
	No. 156170/1987) (Toshiba Corp.),		
	03 October, 1987 (03.10.87),		
	Full text		
	(Family: none)		
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		·	
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X Further do	cuments are listed in the continuation of Box C.	See patent family annex.	
	gories of cited documents:		
"A" document de	efining the general state of the art which is not considered	"I" later document published after the date and not in conflict with the ap	e international filing date or priority oplication but cited to understand
to be of part	icular relevance	the principle or theory underlying	the invention
filing date	cation or patent but published on or after the international	"X" document of particular relevance;	the claimed invention cannot be onsidered to involve an inventive
"L" document w	hich may throw doubts on priority claim(s) or which is	step when the document is taken a	
special reason	ablish the publication date of another citation or other on (as specified)	"Y" document of particular relevance;	the claimed invention cannot be
	ferring to an oral disclosure, use, exhibition or other means	considered to involve an invent combined with one or more other	such documents, such combination
"P" document pu priority date	ablished prior to the international filing date but later than the	being obvious to a person skilled in the same part of the same part.	
,		document member of the same par	teut family
Date of the actua	d completion of the international search	Date of mailing of the international	search report
26 Apri	il, 2005 (26.04.05)	17 May, 2005 (17	-
Name and mailin	ng address of the ISA/	Authorized officer	
	se Patent Office		
Facsimile No.		Tolombono No	
	0 (second sheet) (January 2004)	Telephone No.	
	Comming 2007)		

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International application No.
PCT/JP2005/001397

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 158397/1981(Laid-open No. 63407/1983) (Tokyo Buhin Kogyo Co., Ltd.), 28 April, 1983 (28.04.83), Full text; Figs. 6, 7 (Family: none)	1-5
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 130180/1974 (Laid-open No. 70091/1976) (Koito Manufacturing Co., Ltd.), 02 June, 1976 (02.06.76), Full text; Figs. 4, 5 (Family: none)	1-5
A	JP 45-26515 Y1 (Tokyo Shibaura Electric Co., Ltd.), 15 October, 1970 (15.10.70), Full text (Family: none)	1-5